Declas	sified in Part - S	Sanitized Copy Appro	oved for Release @ 50-Yr 2013/06/0	05 : CIA-RDP82-00047R000100100003-	
• :			CENTRAL INTELLIGENCE AGENCY	to.	
. '		IN	FORMATION REPOR	PT	
	COUNTRY	Poland	SECURITY INFORMATION	DATE DISTR. 200ct 1951	
	SUBJECT	Polish "Kania"	Type Trainer Aircraft	NO. OF PAGES 3 50X1	
0X1	PLACE ACQUIRED			NO. OF ENCLS. 3 (LISTED BELOW) (A), (B) & (C)	
	DATE ACQUIRED E	31		SUPPLEMENT TO REPORT NO.	
	DATE OF II	NF			
0X1	THIS DOCUMENT CONT OF THE UNITED STAT AND 794, OF THE U. LATION OF ITS CONT PROMISITED BY LAW.	TAINS INFORMATION APPECTING THE EES, WITHIN THE MEANING OF TITLE B. CODE, AS AMENDED. 175 TARA TERMS TO, OR RECEIFT BY AN UNABUL THE REPRODUCTION OF THIS FOR	MATIONAL DEFENSE 18, SECTIONS 783 SMISSION ON REVE- HONIZED FRANCH 13 N IS PROMISITED.	S UNEVALUATED INFORMATION	
		<u> </u>		· · · · · · · · · · · · · · · · · · ·	
				. ,	
	3 0 5				
	Aleksar	Only one type of the "Kania" trainer aircraft was constructed at the Bielsko/Aleksandrowice Airfield. This was a prototype of the plane and was designed by a Major (fnu) Stankiewicz and an aircraft engineer named Hustin Sandauer.			
	Severa.	l Soviet commissi	ons had visited the Glider Residerable interest in the aircr	earch Plant in Bielsko	
	the Sow	the Soviets were considering replacing their antiquated PO-2 type aircraft with this new trainer. The prototype of the plane was tested at the Bielsko/			
	Aleksar Serial Zaklady	Aleksandrowice Airfield (4948N-1900E) from April 1951 until June 1951. Serial production of the plane was scheduled to begin at the Panstwowe Zaklady Lotnicze (PZL) (State Aircraft Plant) in Mielec. Poland (5017N-			
		sometime in 1951	"Kania" type trainer aircraft	6-17	
		erformance	manua type trainer afferant	are as iolioms:	
	, ,		8 220 kilometers per hour at	sea level and up.	
	(2	to 3,000 meter 2) Cruising speed			
	(3 (4 (5 (6	 Average rate of Maximum service Take-off distance 	eed: 165 kilometers per hour of climb: 1.8 meters per secon ce ceiling: 6,200 meters with ance: Over an 18 meter obstacl	d up to 3,000 meters.	
	(7	and at sea lev Fuel: Interna	vel: 200 meters. al - normal 160 liters. Exter	nal - none.	
	(8	sea level and load of 160 li	960 kilometers at 180 kilometers up to 3,000 meters altitude, i	ers per hour at with a normal fuel	
		TORU OI TOO II	SEGRET		

DISTRIBUTION

SECRET

SECRET

50X1

--2 •

- (9) Combat radius: 480 kilometers.
- (b) Power Plant
 - (1) Number and type of enginess one Soviet M-11 FR type engine, tractor mounted in the rose of the aircraft.
 - 2) Description: five-cylinder, mir-cooled, radial-engine.
 - 3) Take-off power: 165 horsepower at sea level, 1,750 rpm.
 - (4) Normal power: 135 horsepower at sea level, 1,600 rpm.

5) Propeller: two-bladed, wooden.

(6) Pitch control: fixed.

- (7) Armament: none.
- (8) Maximum freight load: 350 kilograms (including aircrew).
- (9) Combat protections none.
- (10) Type of fuels B-72 octane.
- (11) Fuel tanks: not protected.
- (c) Air Specifications
 - Construction: constructed completely of wood; rudders, ailerons and elevators are covered with fabric.
 - (2) Wing spans 12 meters.(3) Lengths 13.5 meters.

(4) Overall height: 2.35 meters.

- (5) Additional information: designed as a primary and advance trainer; it may also be used as a liaison plane. Constructed to replace the PO-2 and CSS-13 type trainers.
- (d) Physical Characteristics
 - (1) Wings: the wings were mounted high on four column struts above the cockpit and were supported by two angular struts which ran from the wing chord root to the junction with the landing gear. The wings were joined over the cockpit. A sketch is attached as Enclosure (C).

(2) Span: approximately 12 meters.

3) Dihedral: very slight upward dihedral.

- (4) Shapes surfaces tapering outwardly from the wing root to approximately one-fifth of wing length and then tapering inwardly to wing tip. Surfaces swept back approximately 15 degrees. Wing tips square. Aspect ratio very low.
- (5) Wing area: approximately 15.6 square meters.

(6) Chord length: approximately 1.30 meters.

(7) Wing thickness: approximately 25 centimeters.

(8) Flaps: none.

- (9) Slots: fixed slots located approximately one-third of wing length at the wing tip.
- (10) Ailerons: length: 2.5 meters. Width: 45 centimeters. Fabric covered.
- (e) Unusual features: built-up portion to the rear of rear cockpit to provide steady airflow.
- (f) Construction: wooden frame and plywood covered. Plywood skin approximately four millimeters thick. Constructed in one piece.
- (g) Empenage
 - (1) Vertical surfaces: single fin and rudder. Fin constructed of wood frame, plywood-covered. Frame of rudder is of wood and fabric covered. Fixed aluminum tabs located on rudder.
 - (2) Horizontal surfaces: stability and normal, square shaped, and have no dihedral frame sometimeted of wood. Plywood covered, with tapering leading advances: Wooden frame, fabric covered. No trim tabe.

SMART

SFCRFT

SECRET

... 3 ...

50X1

(h) Unusual featuress the already was equipped for glider towing. The glider tow attachment was located directly beneath the vertical stabilizer at the rear end of the fuselage. To strengthen the fuselage for glider towing, two steel cables, approximately five millimeters thick were installed in the craft, running from the tail of the plane along the floor of the fuselage to a point located approximately under the front cockpit.

- (i) Landing gears normal fixed-type landing gear similar to that in the American Piper Cub. The main wheels used were old Piper Cub wheels taken from wer-surplus Cubs. The plane used an uncontrollable tail wheel. The approximate diameter of wheel was 25 centimeters. Main wheel strut was approximately 1.6 meters high, constructed of steel tubing and fabric-covered, and utilized rubber shock absorbers located within the fuselage.
- (j) Fuel tanks: one aluminum tank located just forward of the front cockpit. The capacity of the tank is 160 liters and is filled from the top.
- (k) Oil tanks: one aluminum tank located just forward of the gas tank.

 The capacity of the oil tank is 16 kilograms. Pitot tube located on the left wing strut.
- 3. Foints listed hereunder refer to source's memory sketch of the "Kania" trainer cockpit (reer pilot's cockpit). Attached as Enclosure (B).

(a) Plastic cockpit windshield

(b) Magnetic compass

(c) Altimeter

(d) Tachometer indicator

(e) Position and panel light switches

(f) Ignition switch

g) Pitot head heater switch

(h) Primer fuel pump

(i) Throttle

(j) Carburetor heater

(k) Carburetor height correction mixture control(1) Gasoline fuel valve (downward motion - off)

(m) Control stick

(n) Control stick neutralizing lock

(o) Flight indicator

(p) Airspeed indicator

(q) Fuel tank indicator (gasoline)

(r) 011 temperature indicator

(s) Oil pressure indicator

t) Brake locks

(u) Rudder controls

- (v) Starter-booster electro-magnetic. (In order to start, turn the manually operated handle to provide extra strong ignition sparks.)
- 4. The front cockpit had a control stick, rudder controls, throttle, carburetor heating indicator, carburetor height correction, compass, altimeter, air speed indicator, and tachometer.

∝ end ∞

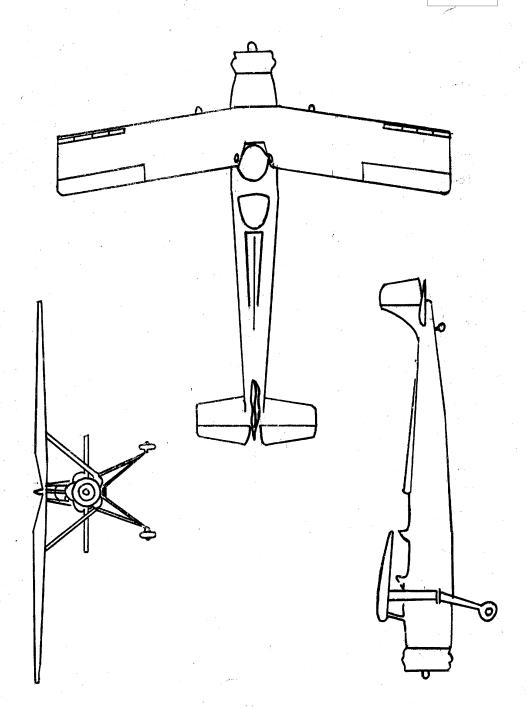
Enclosures

- (A) Memory Sketch of Polish "KANIA" Type Trainer Aircraft (B) Memory Sketch of "KANIA" trainer cockpit layout
- (C) Memory sketch of "KANIA" trainer aircraft wing joints

SECRET

ENCLOSURE (A)

50X1



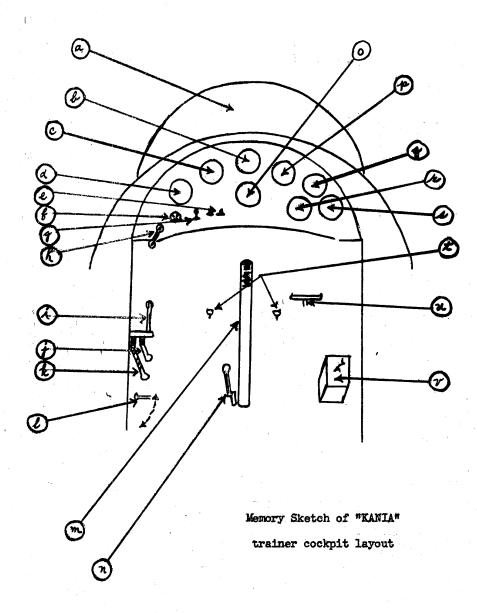
Memory Sketch of Polish
"KANIA" Type Trainer Aircraft

SECRET

ENCLOSURE (B)

SECRET

50X1

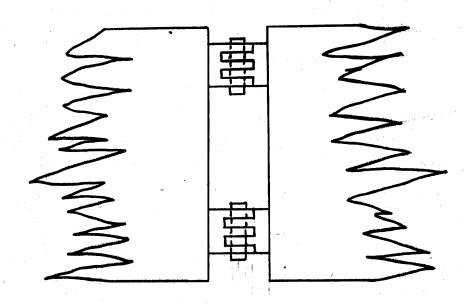


SECRET

ENCLOSURE (C)

SECRE

50X1



Memory sketch of "KANIA" trainer aircraft wing joints

SECRET